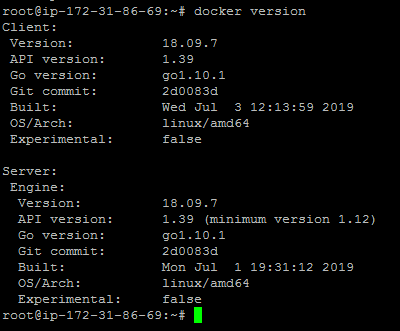
**Assisted Practice: 5.1 Install Kubernetes**

**Step 5.1.1:** Installing prerequisites packages

* Run the **docker version** command to validate Docker.

**docker version**



**Step 5.1.2:** Configuring Kubernetes

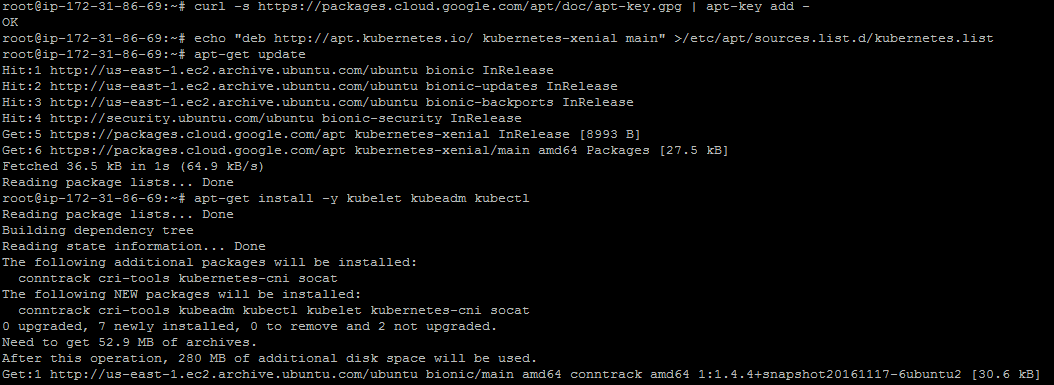
* Configure Kubernetes using the procedure below.

**curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | apt-key add -**

**echo "deb http://apt.kubernetes.io/ kubernetes-xenial main" >/etc/apt/sources.list.d/kubernetes.list**

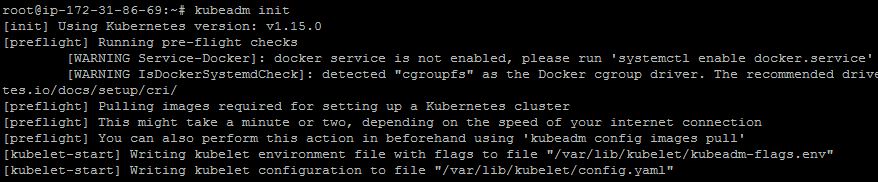
**apt-get update**

**apt-get install -y kubelet kubeadm kubectl**



* Initialize Kubernetes to deploy containers using Kubernetes CLI.

**kubeadm init**

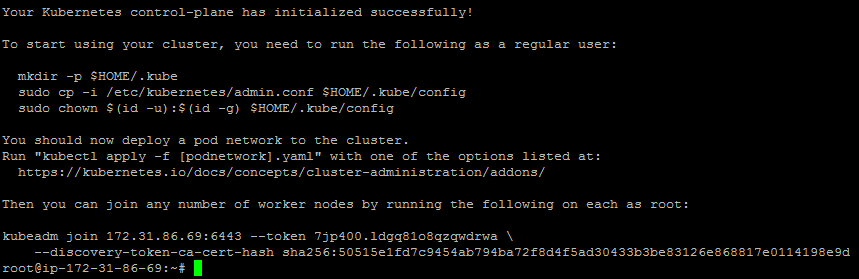


* Once Kubernetes is initialized, configure Kubernetes to start using the Kubernetes cluster.

**mkdir -p $HOME/.kube**

**sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config**

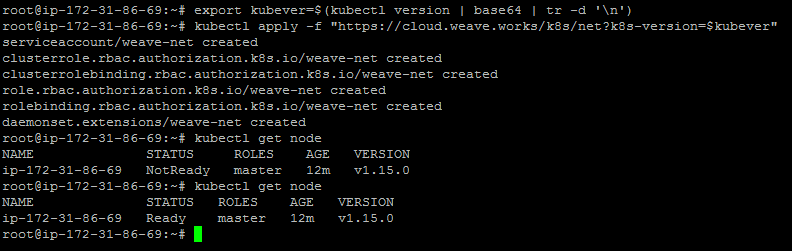
**sudo chown $(id -u):$(id -g) $HOME/.kube/config**



* After the cluster gets started, deploy a weave network to the cluster.

**export kubever=$(kubectl version | base64 | tr -d '\n')**

**kubectl apply -f "https://cloud.weave.works/k8s/net?k8s-version=$kubever"**



* With weave network deployment, validate that the node is up and running. That will help to deploy a Docker container to the Kubernetes cluster.

**kubectl get node**

**kubectl get pods --all-namespaces**

